

ATGGCTCTGGGGCCCAACTGTGGCATCCTACTGTTTCTGGCTGTTTCTGGGTGTGGCCATCCCC
 AGGTTTCAAACCTCGGGAAGTCGAATCGTGGGAGGGCATGCTGCCCCAGCAGGCACATGGCCGTG
 GCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGTGTGGAGGCTCCCTGCTCAGTCCAGAATGG
 GTGCTCACAGCAGCCCACTGCTTCTCTGGGTCTGTGAACTCGTCTGATTATCAGGTGCACTTGG
 GAGAGCTTACGGTCACACTGTCTCCCCACTTCTCCACTGTAAAACGGATCATCATGTACACTGG
 CTCTCCAGGACCACCGGGGTCCAGTGGGGACATTGCCCTGGTGCAGCTGTCCTCCCCGGTGGCC
 CTTTCCAGCCAGGTCCAGCCTGTGTGCCTCCCAGAGGCCTCAGCTGACTTCTACCCCTGGGATGC
 AGTGCTGGGTGACTGGCTGGGGCTATACAGGGGAGGGAGAGCCTCTGAAGCCCCCATAACAACCT
 TCAGGAGGCCAAAGTCTCTGTGGTGGATGTAAAGACCTGCAGCCAGGCTTACAATAGTCCCAAT
 GGCAGCCTCATCCAGCCAGACATGCTATGCGCCCCGGGGCCCTGGGGATGCCTGCCAGGATGACT
 CTGGAGGGCCACTAGTCTGCCAGGTGGCTGGAACCTGGCAGCAGGCCGGCGTTGTCAGCTGGGG
 TGAGGGCTGTGGCCGCCCTGACCGCCCTGGCGTCTATGCCCGGGTTACTGCCTATGTAAACTGG
 ATCCACCACCACATCCCGGAAGCAGGGGGCTCAGGAATGCAAGGGCTTCCCTGGGCTCCTCTCC
 TGGCTGCCCTCTTCTGGCCAAGCCTCTTCCTGCTGCTGGTCTCTGGAGTCCTGATGGCCAAGTA
 CTGGCTGAGCTCTCCCTCCCACGCGCCTCGGAACTCTGAATGAGGTGTAGCAACCAACCCAAG
 TGTCTTTCTTAAATAAGTTAGTGTATTATTCAGTTTGCTTTGCCCTCCCCCTCCCCCTTAGCTTTG
 ACTTAGGAAGCCAAAGTTTTTCTGCATCAGATTATTGCAACATTTAACCTGAATTTGTAGAACGG
 ATGACATAAAGCAAATGGATGTCAAAAAAAAAAAAA (SEQ ID NO:1)

MALGPNCGILLFLAVSGCGHPQVSNVSGSRIVGGHAAPAGTWPWQ
 ASLRLHKVHVCGLLSPEWVLTAAHCFSGSVNSSDYQVHLGELTVTLSPHFSTVKRI
 IMYTGSPGPPGSSGDIALVQLSSPVALSSQVQPVCLPEASADFYPGMQCWVTGWGYTG
 EGEPLKPPYNLQEAKVSVDVKTCSEQAYNSPNGSLIQPDMLCARGPGDACQDDSGGPL
 VCQVAGTWQQAGVVSWECEGRPDPRPGVYARVTAYVNWIHHHIPEAGGSGMQGLPWAP

LLAALFWPSLFLLLVSGVLMKYWLSSPSHAASEL (SEQ ID NO:2)

FIGURE 1

Variable	Mean	SD	Min	Max
Age	40.5	10.5	25	65
Gender	50%	50%	0	100
Marital status	75%	25%	0	100
Education	12.5	2.5	9	16
Income	3500	1500	1000	7000
Health status	80%	20%	0	100
Exercise frequency	3 times/week	2 times/week	1 time/week	4 times/week
Dietary habits	Healthy	Unhealthy	0	100
Stress level	High	Low	0	100
Sleep quality	Good	Poor	0	100
Work satisfaction	70%	30%	0	100
Life satisfaction	85%	15%	0	100
Overall well-being	90%	10%	0	100

Construct

Gene: 372

GI Number(s): 6103630

Gene Family: Protease

Gene Subfamily: Serine Protease

Gene Sequence: full-length cDNA, Mouse

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

ATGGCTCTGGGGCCCAACTGTGGCATCTACTGTTTCTGGCTGTTTCTG [GGTGTGGCCA
TCCCCAGGTTTCAAACCTCGGAAGTCAATCGTGGGAGGGCATGCTGCCCCAGCAGGCAC
ATGGCCGTGGCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGT] GTGGAGGGCTCCCTGC
TCAGTCCAGAATGGGTGCTCACAGCAGCCCCACTGCTTCTCTGGGTCTGTGAACCTCGTCTG
ATTATCAGGTGCACCTTGGGAGAGCTTACGGTACACACTGTCTCCCCACTT [CTCCACTGTA
AAACCGGATCATCATCTACACTGGCTCTCCAGGACCACGGGGTCCAGTGGGGACATTGGC
CTGTTGCAGCTGTCTCCCCGGTGGCCCTTTCCAGCCAGGTCCAGCCTGTGTGCCTCCCA
GAGGCCCTCAGCTGACTTCTACCCTGGGATGCAGTGCTGGGTGACTGGCTGGGGCTATACA
GGGGAGGGAG] AGCCTCTGAAGCCCCCATACAACCTTCAGGAGGCCAAAGTCTCTGTGGT
GGATGTAAAGACCTGCAGCCAGGCTTACAATAGTCCCAATGGCAGCCTCATCCAGCCAGA
CATGCTATGCGCCCCGGGCCCTGGGGATGCCTGCCAGGATGACTCTGGAGGGCCACTAGT
CTGCCAGGTGGCTGGAACTTGGCAGCAGGCCGGCGTTGTACAGTGGGGTGAGGGCTGTGG
CCGCCCTGACCGCCCTGGCGTCTATGCCCCGGGTACTGCCTATGTAAACTGGATCCACCA
CCACATCCCGGAAGCAGGGGGCTCAGGAATGCAAGGGCTTCCCTGGGCTCCTCTCTGGC
TGCCCTCTTCTGGCCAAGCTCTTCTGTCTGCTGGTCTCTGGAGTCTGATGGCCAAGTA
CTGGCTGAGCTCTCCCTCCCACGCGGCCCTCGGAACCTGTAATGAGGTGTAGCAACCAACC
CAGTGTCTTTCTTTAAATAAGTTAGTGTATTATTCAGTTTGTCTTGGCCCTCCCCTCCCCT
TAGCTTTGACTTTAGGAAGCCAAAGTTTCTGCATCAGATTATTGCAACATTTAACCTGAA
TTTGTAGAACGGATGACATAAAGCAAATGGATGTCAAAAAAAAAA (SEQ ID NO:1)

Gene Sequence Structure

*

164 bp

Sequence Deleted

287 bp

Size of full-length cDNA: 1122 bp

FIGURE 2A

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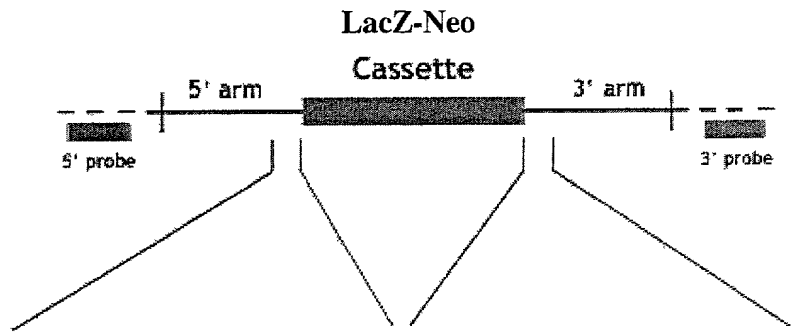
Targeting Vector* (genomic sequence)

Construct Number: 1607

Arm Length:

5': 6 kb

3': 0.7 kb



5'>GGAGTCATGGAGGGCTCCCAG
AGAAAGGGCATTGAGCAGAATGCC
GGTCTCCAGATTCCCTCACCAACA
GTGTCTCCTCTGGATCAGGGTGTG
GCCATCCCCAGGTTTCAAACCTCGG
GAAGTCGAATCGTGGGAGGGCATG
CTGCCCCAGCAGGCACATGGCCGT
GGCAGGCTAGCCTCCGTCTGCACA
AGGTGACGTGT<3'
(SEQ ID NO:3)

5'>CTCCACTGTAAAACGGATCAT
CATGTACACTGGCTCTCCAGGACC
ACCGGGGTCCAGTGGGGACATTGC
CCTGGTGCAGCTGTCCTCCCCGGT
GGCCCTTTCCAGCCAGGTCCAGCC
TGTGTGCCTCCCAGAGGCCCTCAGC
TGACTTCTACCCTGGGATGCAGTG
CTGGGTGACTGGCTGGGGCTATAC
AGGGGAGGGAG<3'
(SEQ ID NO:4)

Targeting Vector

Endogenous Locus

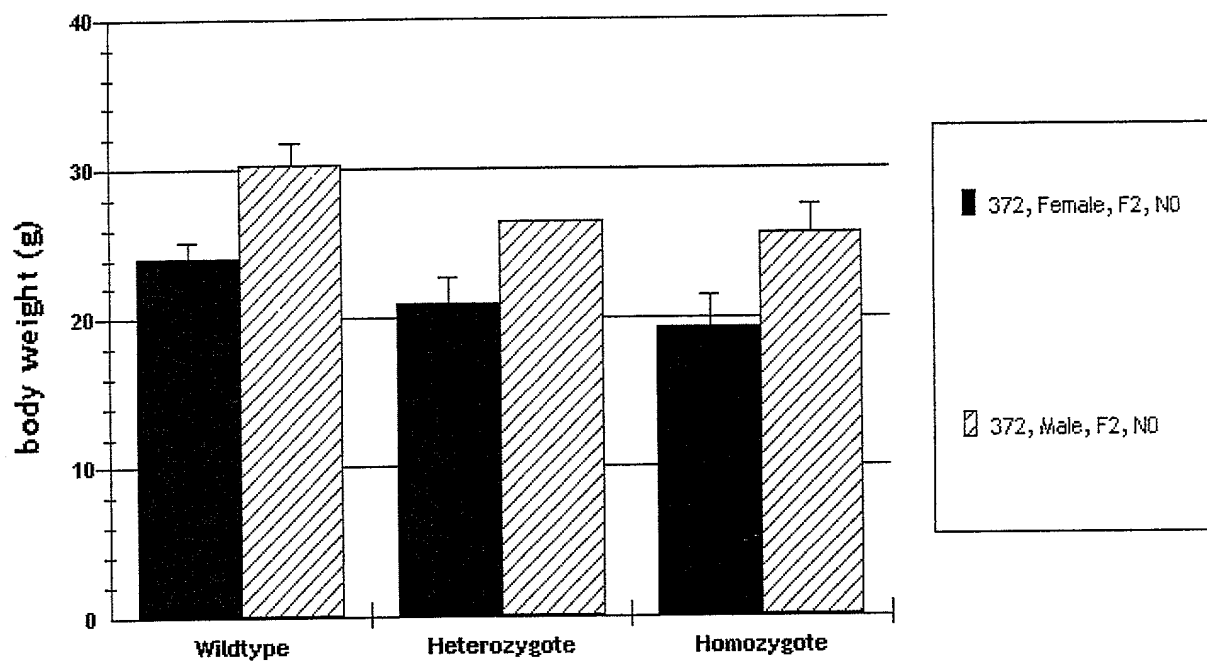
*Not drawn to scale

FIGURE 2B

09900754-070604

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necropsy - body weight



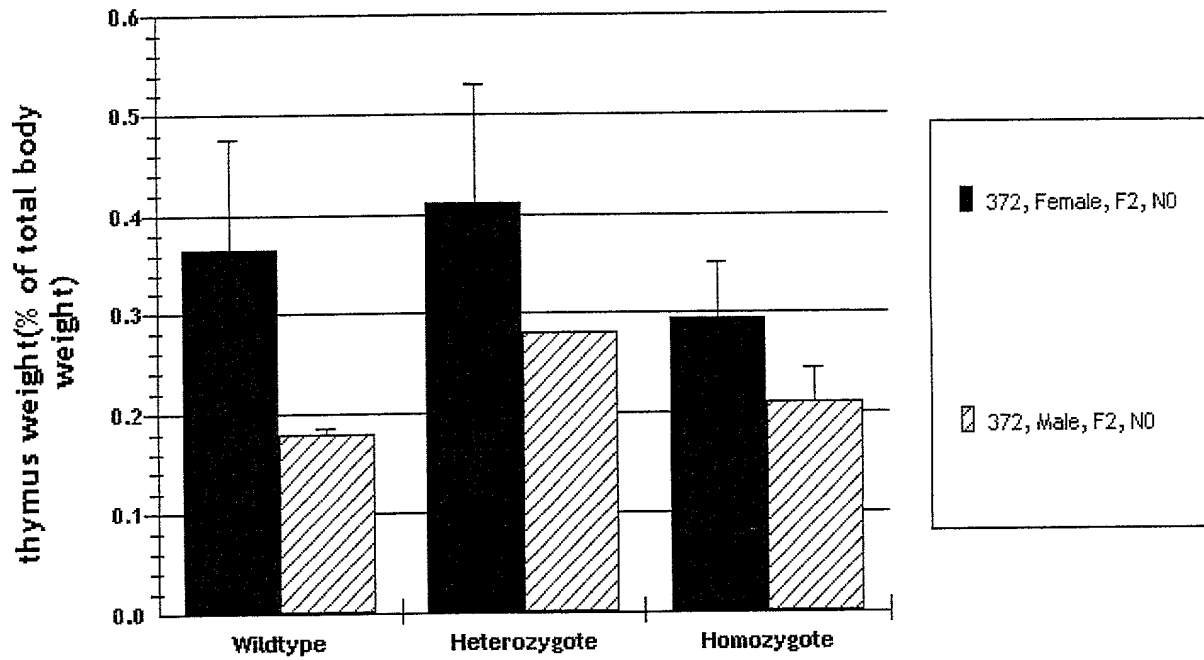
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FIGURE 3

09900754-07604
T09070-45/00660

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necropsy - thymus weight/body weight



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FIGURE 4

T09020"45200650

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Phenotypic Data Summary - Startle Response Amplitude

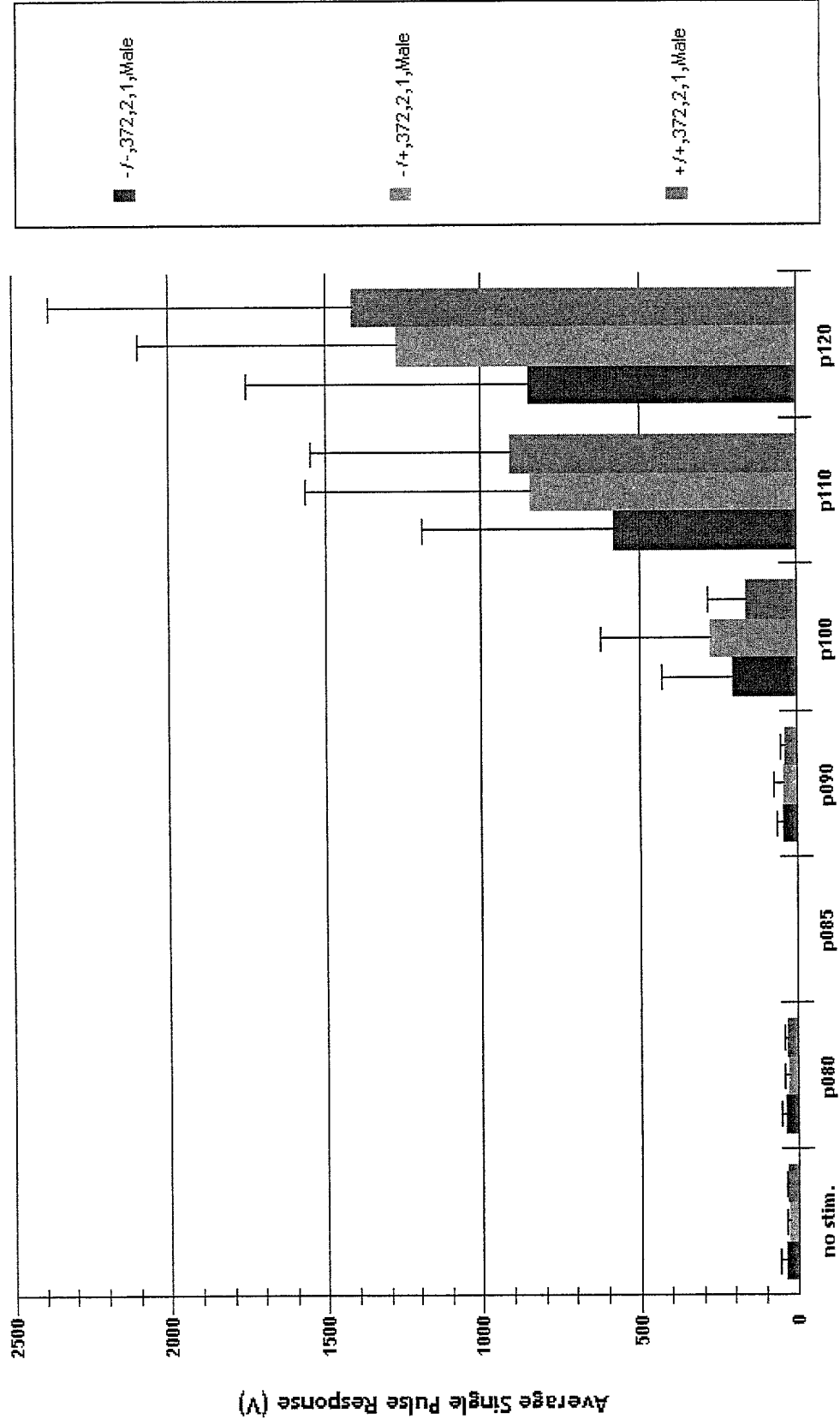


FIGURE 5